F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	BW1A25,ETC		

INTERSECTION OPERATION

The intersection of MD 197 at Proposed Ramp A will operate in a NEMA (3) three-phase semi-traffic-actuated mode with Maryland 197 approaches operating concurrently. Proposed Ramp A will operate alone. A presence loop detectors shall be placed on the Propose Ramp A approach and advance loop detectors on both approaches of MD 197.

A fully-actuated eight-phase traffic signal controller in a base-mounted system ready cabinet shall be installed at this intersection.

MD 197 is assumed to run in a North-South direction.

CONSTRUCTION DETAILS

A. Install 27′ steel pole with single 50′ mast arm, 20′ lighting arm and luminaire, control and distribution equipment (see drawing B-8), traffic signal heads and signs as shown (NOTE: 1-2″ PVC (schedule 80) 90 degree angle conduit bend and 1-3″ PVC 90 degree angle conduit bends).

B. Install 27′ steel pole with twin 50′ and 50′ mast arms, 20′ lighting arm and luminaire, traffic signal heads and signs as shown (NOTE: 1-3″ PVC 90 degree angle conduit bends).

C. Install traffic signal controller with four (4), two-channel loop detector amplifiers in a base-mounted, system-ready cabinet.(NOTE: 1-2″ PVC (schedule 80) 90 degree angle conduit bend, 2-4″ PVC 90 degree angle conduit bends, and 1-2″ PVC (schedule 40) 90 degree angle bend).

D. Install handhole.

E. Install 1″ electrical conduit detector wire sleeve.

F. Install 2″ schedule 80 electrical conduit-trenched.

G. Install 3″ schedule 40 electrical conduit-trenched.

H. Install 2-4″ schedule 40 electrical conduit-trenched.

I. Install 2″ schedule 80 electrical conduit-under existing pavement.

J. Install 3″ schedule 80 electrical conduit-under existing pavement.

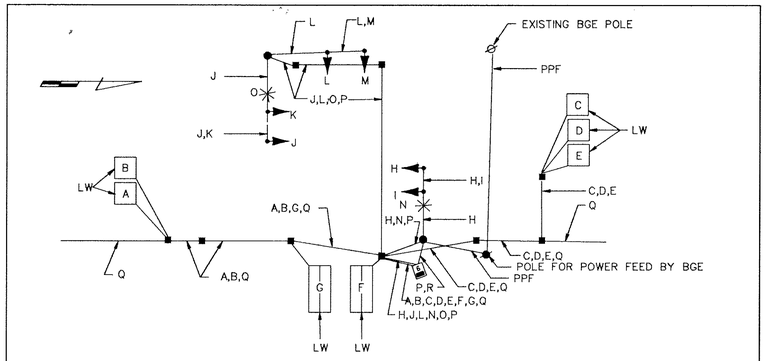
K. Install 6′x 6′ loop detector (3 turns).

L. Install 6′x 30′ loop detector, quadrupole type (2-4-2 turns).

M. Install 24″ solid white stop line.

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. ALL OVERHEAD SIGNS SHALL BE INSTALLED AS PER SIGNAL PLAN OR AS DIRECTED BY THE CONTRACTING OFFICER.
3. PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED BY THE CONTRACTOR AS PER MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS.



WIRING LEGEND

LW	LOOP WIRE
A-G	2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
H,J,L	5-CONDUCTOR CABLE (NO. 14 A.W.G.)
I,K,M	7-CONDUCTOR CABLE (NO. 14 A.W.G.)
N,O	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
P	GROUND WIRE (NO. 6 A.W.G.)
Q	12 PAIR COMMUNICATION CABLE (NO. 19 A.W.G.)
R	1-CONDUCTOR CABLE (NO.4 A.W.G.)
PPF	PROPOSED OVERHEAD POWER FEED BY BGE

EQUIPMENT LEGEND

- TRAFFIC SIGNAL METAL POLE
- BASE MOUNTED CONTROL CABINET
- HANDHOLE
- TRAFFIC SIGNAL HEAD
- LIGHTING ARM WITH LUMINAIRE

WIRING DIAGRAM

	1	2	3	4	5	6	
	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	
PHASE 2 & 6	G	G	G	G	R	R	←
2 & 6 CHANGE	Y	Y	Y	Y	R	R	←
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔ ↕

PHASING CHART

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MD 21217
TEL. (410) 728-2900

REVISIONS:
(2) REVISED 04/96 (RELOCATION) FOR B/W PKWY. IMPROVEMENT F.A.P. NO. BW1A25,ETC — ZAJ

APPROVALS:
ORIGINAL
CHIEF SIGNAL DESIGN SECTION
ON
ASST. DISTRICT ENGINEER TRAFFIC
CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
FILE

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
LOG MILE # 16019712.36

DRAWN BY:
DES. BY:
CHK. BY:

MD 197 @ RELOCATED B/W PKWY. RAMP A
GENERAL INFORMATION
COUNTY: PRINCE GEORGE'S

DATE: APRIL 19, 1978 F.A.P. NO. BW1A25,ETC
SCALE: NONE S.H.A. NO.

TS/STD. NO.: TS-1615R-GI-1
SHEET NO. OF